## ABSTRACT

A method for providing a proactive security in proactive operating environment. The proactive operating includes a group of proactive environment communicating over a network. Each proactive server (PS<sub>I</sub>) includes a storage that includes a non erasable part that stores a public, non proactive related, key  $V_{start}$ . The storage further includes an erasable part for storing private and public data. The proactive server has a discardable one-time private key  $S^{r}_{start}$  that corresponds to the public key  $V^{r}_{start}$ . The proactive server further has configuration data C. There is further provided a for providing a proactive services processor applications. The proactive server has a group public proactive key  $V_{\it CERT}$  common to the group of proactive servers and a share  $S^{I}_{CERT}$  of a corresponding private proactive key  $S_{CERT.}$  The method further includes the steps invoking initialization procedure for generating restore related information, and invoking a restore for utilizing the public, non proactive procedure related, key  $V^{I}_{start}$  and the restore related information for restoring the public proactive key  $V_{CERT}$ .

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